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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,021	04/11/2005	Ichiro Tsukada	259427US2PCT	1104
22850 7590 01/29/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER CHIEN, LUCY P	
			ART UNIT 2871	PAPER NUMBER
			NOTIFICATION DATE 01/29/2008	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/509,021

Applicant(s)

TSUKADA, ICHIRO

Examiner

Lucy P. Chien

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 November 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) 5,6,10-12 and 14-17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4,7-9 and 13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 9/27/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed 9/27/2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

The rest of the references has been considered except: Publication number: JP(2001-77198) has not been provided. Applicant submitted Vehicle Traveling Auxiliary Fabric: Application number JP 2001-077198, publication number: 2002-242042 which is not the correct reference.

Election/Restrictions

Applicant's election without traverse of Species I in the reply filed on 11/19/2007 is acknowledged.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Tsukada Ichiro (JP 2001-77198).

Tsukada Ichiro discloses (Drawing 1) a first wire line (signal line) arranged on a substrate; a second wire line (scanning line) run as extended from the first line but not continuous with the first wire line, and being arranged in a wire pattern layer same with

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the first wire lines; and a conductor (5) connecting the first and second wire lines and being arranged to cover the first and second wire lines through an insulator film (4); said insulator film (4) having a first aperture exposing a portion of the first wire line and having a second aperture exposing a portion of the second wire line; said conductor (5) being connected with the first and second wire lines respectively through the first and second apertures (41); and length of said connector wire (5) being larger than length directly connecting the first and second apertures in a direction along the first and second wire lines, in a plan view (Drawing 2).

Claim 2,4,7,8,13, are rejected under 35 U.S.C. 102(b) as being anticipated by Choi (US 20010035920).

Regarding Claim 2,7,8,13.

Choi discloses ([0053], Fig. 2, Fig. 3D and Fig. 4D) a plurality of scanning lines (21); a plurality of signal lines (23) arranged substantially perpendicular to the scanning lines through a first insulator film (22) there between; switching elements (TFT) respectively disposed in a vicinity of each intersection of the scanning and signal lines, and a terminal of the switching element being electrically connected with the signal line (23); a second insulator film (26) covering such multi layer wiring pattern; pixel electrodes (27) arranged in a matrix as to respectively correspond to said each intersection, on the second insulator film (26); pixel-electrode contact holes perforating the second insulator (26) film as to electrically connect another terminal of the switching element to the pixel electrode; detecting a wire breakage signal or scanning line [0036];

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a pair of contact holes perforating the second insulator film (26) as to expose upper face of said signal or scanning line, at its wire portions interlaying the wire breakage; a bypass wire (25)(Fig. 4D) extending from one to another of the pair of contact holes as to detour the wire breakage and to electrically connect said wire portions interlaying the wire breakage; a pixel-electrode cutout [0053] being formed by removing the pixel electrode in an area ranging from vicinity of the wire breakage to a place receiving the bypass wire line. And the bypass wire (25) running along edge of the pixel electrode cutout as to detour vicinity of the wire breakage and electrically connecting two wire parts interlaying the wire breakage, by sequential or continuous depositing of a conductive layer (bypass line) at inside of the cutout using laser CVD technique ([0050]).

Regarding Claim 4,

Choi discloses ([0053], Fig. 2, Fig. 3D and Fig. 4D) the bypass wire being spaced apart from the pixel electrode as to prevent electrical contact between them.

Regarding Claim 13,

Choi discloses ([0053], Fig. 2, Fig. 3D and Fig. 4D) wherein when the wire breakage is determined due to interposing of a foreign matter (not mentioned, but it is known in the art that short circuits are caused by foreign matter), then forming the cutout and the forming of the bypass wire; and when the wire breakage is determined to be due to other cause, then a connecting wire (bypass wire) extending along the wire is formed by CVD technique.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3,9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Choi (US 20010035920) in view of Hashimoto et al (US 6975295).

Regarding Claim 3,9.

Choi discloses everything as disclosed above.

Choi does not disclose light-insulator film arranged on an area surrounded by the wire breakage, the bypass wire and the wire portions interlaying the wire breakage.

Hashimoto et al discloses a light-insulator film (IL) to block light to provide a display with a good aperture ratio.

It would have been obvious to one of ordinary skill in the art to use a light insulator film such as a light blocking film arranged on an area surrounded by the wire breakage motivated by the desire to block light to provide to increase the aperture ratio (column 6, rows 56-60).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lucy P. Chien whose telephone number is 571-272-8579. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lucy P Chien
Examiner
Art Unit 2871

